MOTOSPEED®

User Manual

K84 RGB Mechanical Keyboard/Inflictor CK104

Keyboard parameters

Key life: 50 million
Working Voltage: +5V±5%
Current: 500mA
Dimension: 437x128x36mm
Weight: 850g±20g
Cord Length: 1.8M±0.1m

Technical Features

1. RGB LEDs supporting 10 configurable LED modes.
2. Full 104-key keyboard, conflict-free (some anti-ghosting support), with quick response (1ms).
3. Outemu Blue (clicky) mechanical switches with clear tops (helps resonate LED lighting).
4. Multimedia keys using FN key combinations.
5. Free of EEPROM memory; adopts a Flash memory chip.
6. Lock WIN key, to avoid interrupting a game session by accidently switching to the desktop.

Brief Overview:

- Preconfigured backlight presets for popular games.
    a. Activation Method: Hold FN and cycle between numbers 1 to 5 on the top row.
    b. Configurations can also be customized by the user. Refer to page 3.
- 10 LED Modes (excluding a three-color boot animation when plugged in)
  Note: The naming convention is à la Ducky. A thorough explanation is provided on page 3.
    1. Full Backlight Mode – steady color and brightness
    2. Breathing Mode – backlight fades in and out with accordance to color and brightness
    3. Selective Mode - Preconfigured lighting profiles for games.
    4. Color Cycling Mode – Backlight cycles through color spectrum, one at a time
    5. Reactive Typing Mode – when a key is activated it lights up and fades to black
    6. Wave Mode - Gradient effect using different brightness levels to produce a fade
    7. Snake Marquee Mode – Each row is lit up from top to bottom
    8. Ripple Mode – when a key is activated surrounding keys light up and ripple away
    9. Circle Mode – when a key is activated, surrounding keys light up for a second
    10. Rainbow Mode – a moving rainbow lights up the keyboard

4. Partial anti-ghosting support:

- 2, 3, 4, F2, F3, F4
- W, A, S, D, Z, X, C, V
- 9, 0, =, F8, F9
- J, K, L, Semi-colon, Apostrophe, R-Shift

Backlight Instructions:

NOTE: All modes can be adjusted using the FN+ArrowKeys combination. Also refer to the last page for all FN combinations.

- Press “FN + INS” to enter *Full Backlight Mode*:
    i. The backlight maintains a steady color and brightness level.
    ii. The color and brightness level can be configured.
- Press “FN + INS” again, to enter *Breathing Mode*:
    i. The backlight simulates a breathing rhythm. The keys fade in and out; this repeats infinitely.
    ii. By changing the brightness level and speed, the strength of the breathing can be manipulated.
    iii. FN+DEL allows you to cycle and choose between 7 colors.
- Press “FN + INS” again, to enter *Selective Mode*:
    i. There are 5 modes which can be selected by pressing FN + numbers 1 through 5 in the top row.
    ii. Instructions to manually configure this mode are on page 3.

- Press “FN + INS” again, to enter *Color Cycling Mode*:
    i. The backlight cycles between all the colors, one at a time, automatically.
    ii. Can be paused to select a specific color.
- Press “FN + INS” again, to enter *Reactive Typing Mode*:
    i. By default, the backlight is disabled and only activated when a key is pressed, then that key slowly fades out
    ii. This can be configured to have random colors or a single color when keys are pressed using FN+DEL
    iii. There are a total of 8 color options: random colors and 7 monochromatic colors.
- Press “FN + INS” again, to enter *Wave Mode*:
    i. The backlight flows horizontally from left to right creating a wave effect.
    ii. There are 8 modes: 7 monochromatic colors and a mixed light mode.
    iii. Manual configuration of each row can be triggered by first selecting the mixed light mode with FN+DEL then pressing FN+HM. NumLock, CapsLock and ScrollLock will flash.
        a. Allows you to adjust the light color per line using the 7 color options. Press a key in the row to adjust the entire row accordingly.
        b. Press FN+HM to save configuration. The 3 Lock keys should stop flashing.
- Press “FN + INS” again, to enter *Snake Marquee Mode*:
    i. The backlight begins at the ESC key and goes all the way right, then down, then all the way left, and so forth till it reaches the end of the keyboard, like a snake moving down the keys. Once the entire keyboard is backlit, the backlight begins to turn off using the same method.
    ii. This can be configured to have random colors or a single color using FN+DEL.
    iii. There are a total of 8 color options: random colors and 7 monochromatic colors.
- Press “FN + INS” again, to enter *Ripple Mode*:
    i. The backlight is activated for the surrounding keys, when a key is pressed, and the light continues to move away from the key that was pressed, until it reaches the ends of the keyboard. To simplify this, the backlit ripples like water. This effect is not limited to one key at a time and can be used whilst typing, however, it can cause epileptic fits.
    ii. This can be configured to have random colors or a single color using FN+DEL.
    iii. There are a total of 8 color options: random colors and 7 monochromatic colors.
- Press “FN + INS” again, to enter *Circle Mode*:
    i. The backlight is activated for the surround keys, when a key is pressed. After a second has elapsed, the keys turn off, unless reactivated by pressing keys within its region. The keys do not fade like Reactive Typing Mode, nor does the light move away like Ripple mode.
    ii. This can be configured to have random colors or a single color using FN+DEL.
    iii. There are a total of 8 color options: random colors and 7 monochromatic colors.
- Press “FN + INS” again, to enter *Rainbow Mode*:
    i. The backlight moves from one side to the other whilst cycling through the color spectrum.
    ii. The direction of the flow can be changed using FN+DEL.

Boot Animation:

- Activated by pressing FN+ESC. **WARNING: This will revert *ALL* your custom Selective Mode profiles.**
- The boot animation of this keyboard lets you know the default settings of the keyboard have been restored.
- The boot animation begins with the green color moving across the entire keyboard, from left to right, followed by red, followed by blue.
- Once the boot animation finished, the keyboard resumes the Mode it was in last prior to pressing the FN+ESC key combination.

Selective Mode

Preconfigured Profiles:

The follow keys below are lit when the corresponding key combination is activated.

Combination	Game	Keys
FN+1	FPS	W,A,S,D, ↑ , ↓ ,←,→,ESC
FN+2	CS	W,A,S,D,Ctrl,Shift,Alt,Space,R,G,Q,E,B,1-5,Tab,F1-F3,Home,End,PgUp,PgDn
FN+3	CoD	Q,W,E,R,T,A,S,D,F,G,C,V,1-7 Ctrl, Shift
FN+4	LoL	Q,W,E,R,A,S,D,F,1-7
FN+5	Race	W,A,S,D,R,Ctrl,Alt,Shift, ↑ , ↓ ,←,→

The above profiles can be selected directly by inputting the corresponding key combination. You do not have to necessarily use FN+INS to select a specific profile.

Custom profile configuration:

- Select the profile you want to edit by using the corresponding FN+[#] combination shown above.
- To start editing hit FN+HM.
    - You know you can edit the keys because NumLock, CapsLock and ScrollLock will be flashing.
- Press the keys you want to have lit. Keep pressing to cycle through the 7 different colors.
    - If you make a mistake keep pressing the key until it turns off.
- After selecting the desired configuration, hit FN+HM again to store the configuration to the keyboard memory.
    - You know you cannot edit the keys because NumLock, CapsLock and ScrollLock will stop flashing.
- Voila! You've successfully configured a profile for Selective Mode.

Note: If you ever want to revert to the default profiles, you can hit FN+ESC. **WARNING**: Your current profiles will be lost and the default profiles will be loaded.

Multimedia Key Combinations:

FN + F1	CD	FN + F7	Pause/Play
FN + F2	Decrease Volume	FN + F8	Stop
FN + F3	Increase Volume	FN + F9	E-mail
FN + F4	Mute	FN + 10	Internet
FN + F5	Last	FN + 11	My computer
FN + F6	Next	FN + 12	Calculator

Keyboard Configuration Key Combinations:

FN+W	Interchange W A S D and ↑ ↓ ←→
FN+WIN-L	Lock WIN key. Note: WIN-L refers to the left WIN key.
FN+ ↑	Brightness +
FN+ ↓	Brightness -
FN+ ←	Speed -
FN+ →	Speed +
FN+ INS	Switch LED Mode
FN+ PrtScr	Turn off the backlight
FN+ ESC	Restore to default settings (refer to Boot Animation on Page 3)